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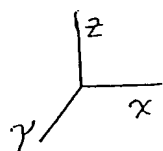
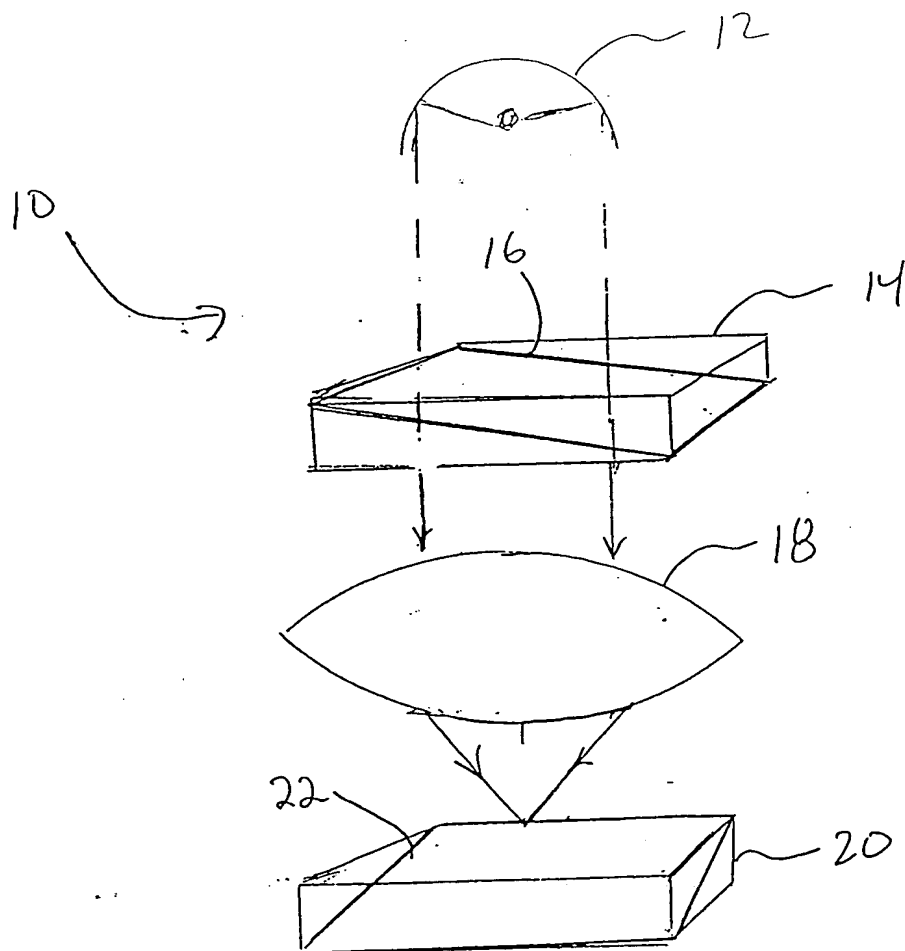
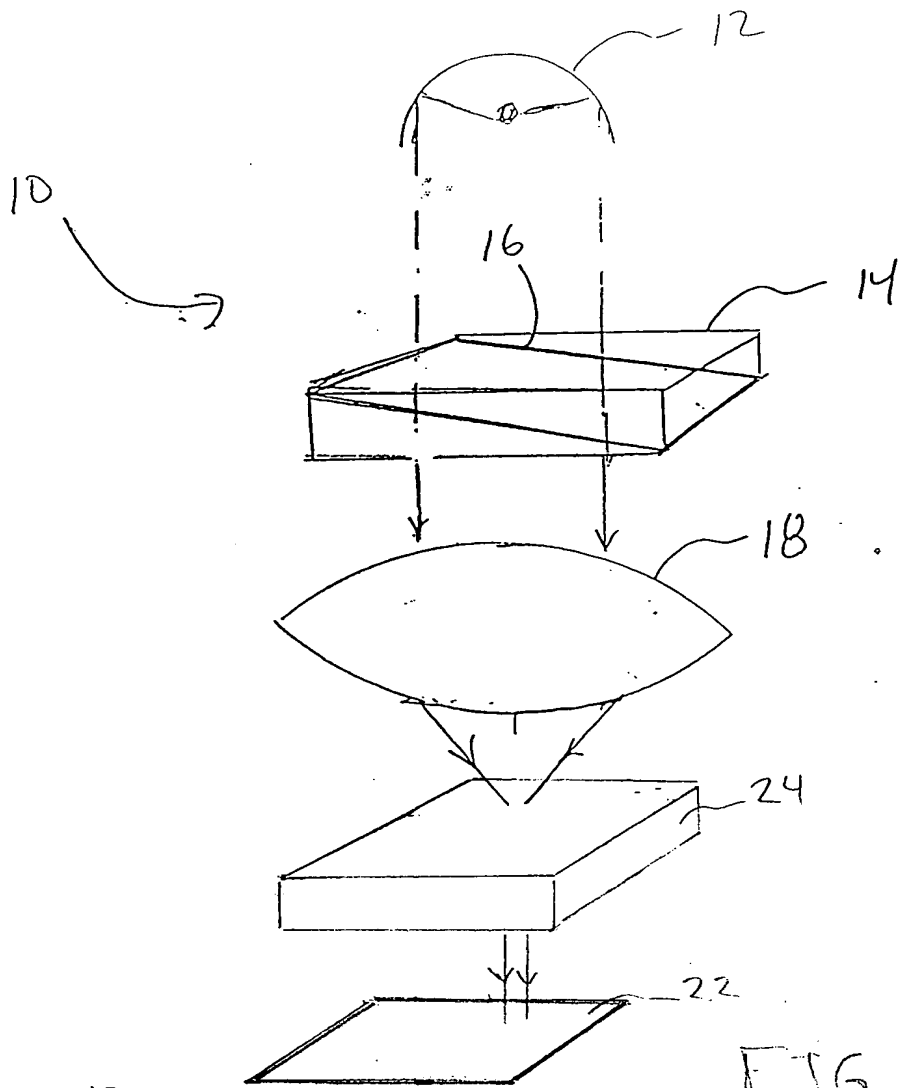
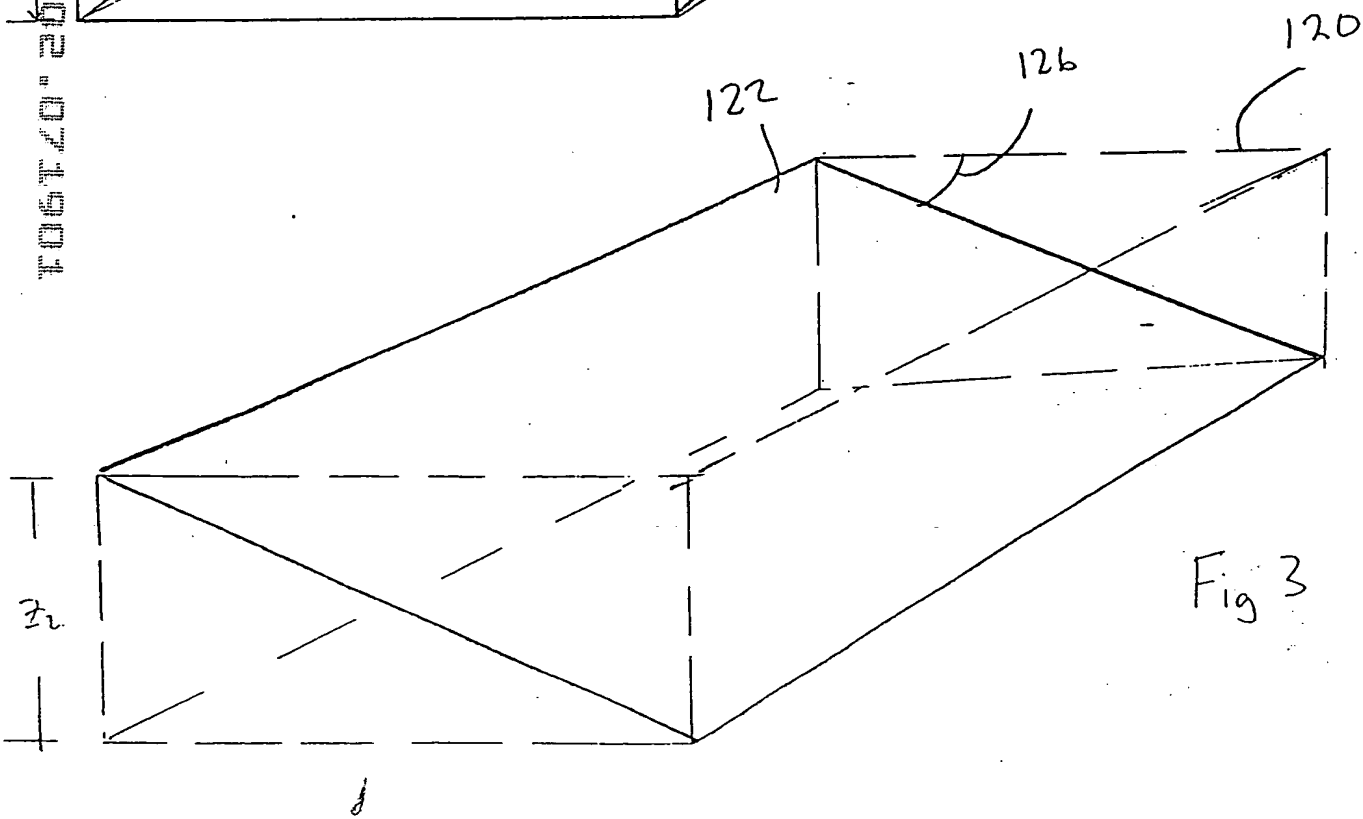
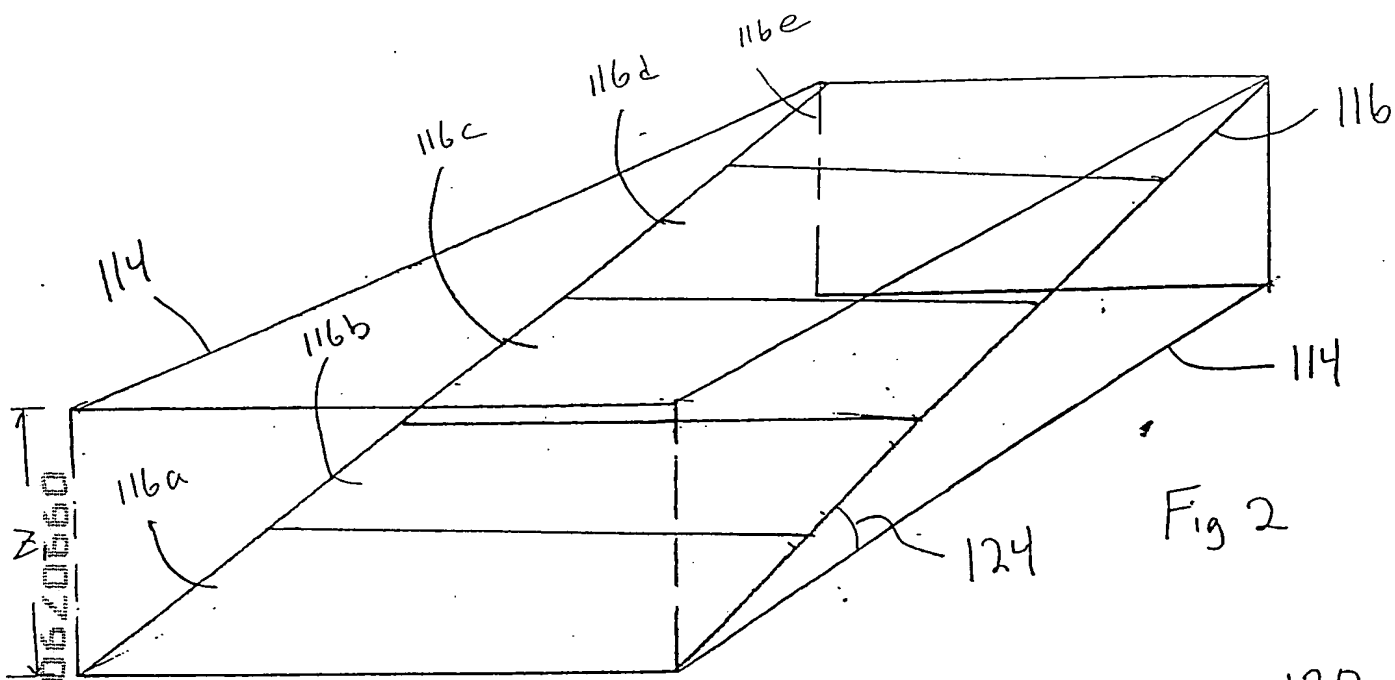


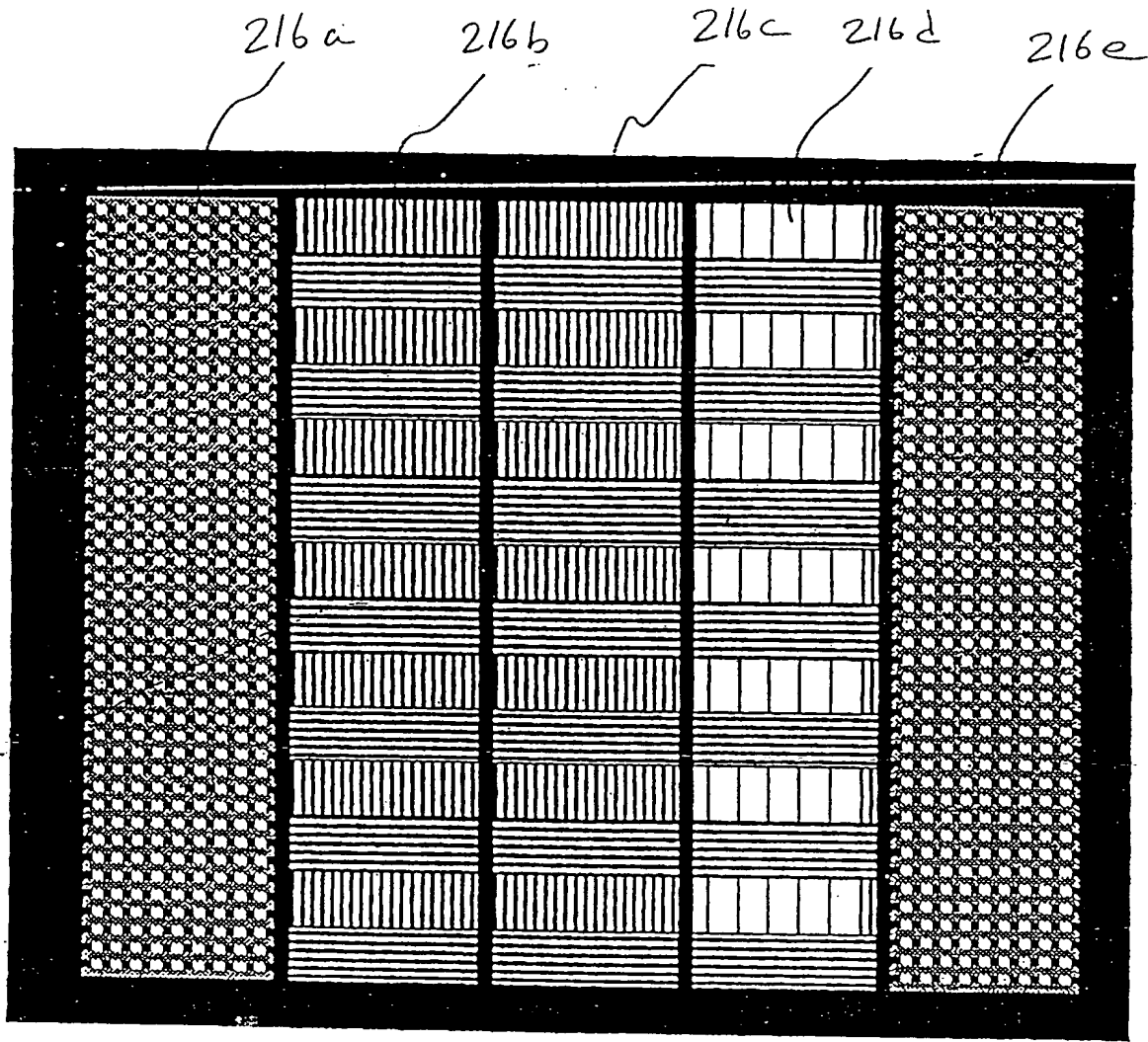
Fig 1A

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216

Fig 4

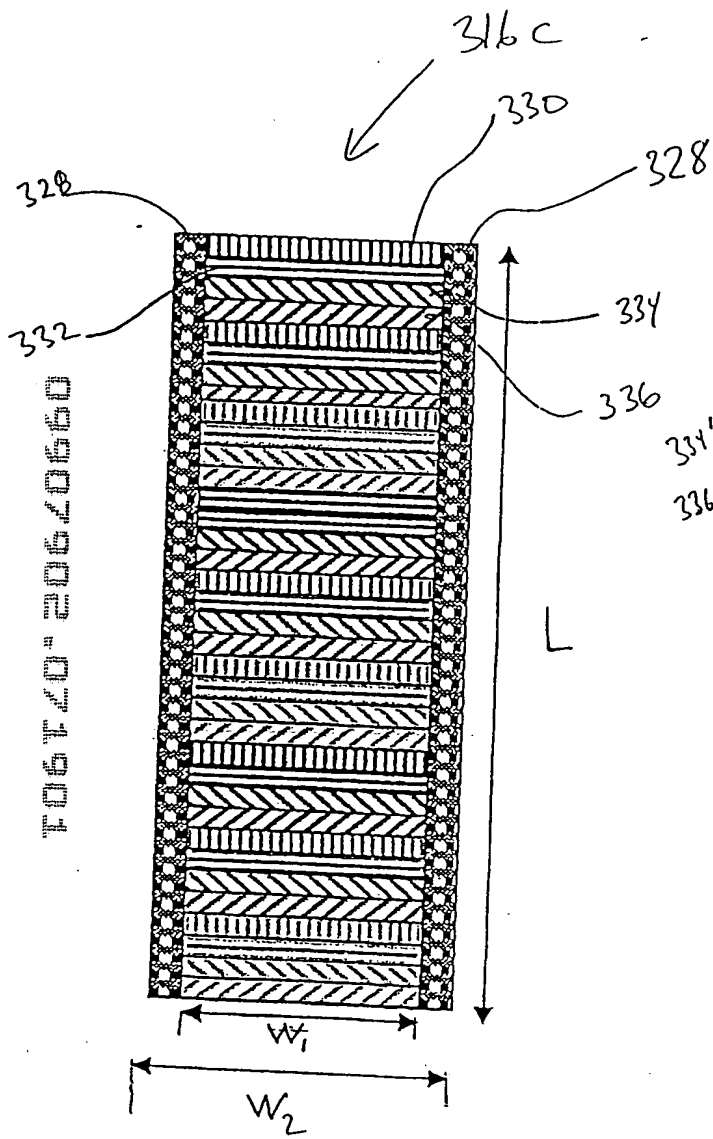


Fig 5A

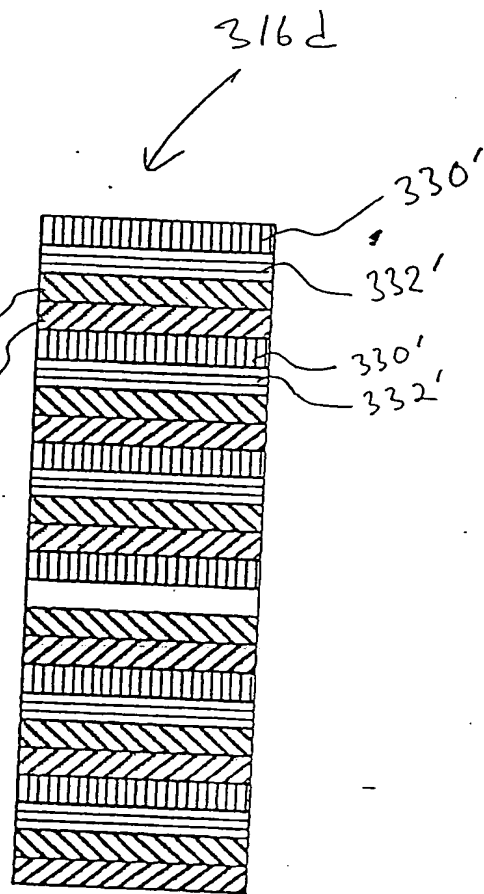


Fig 5B

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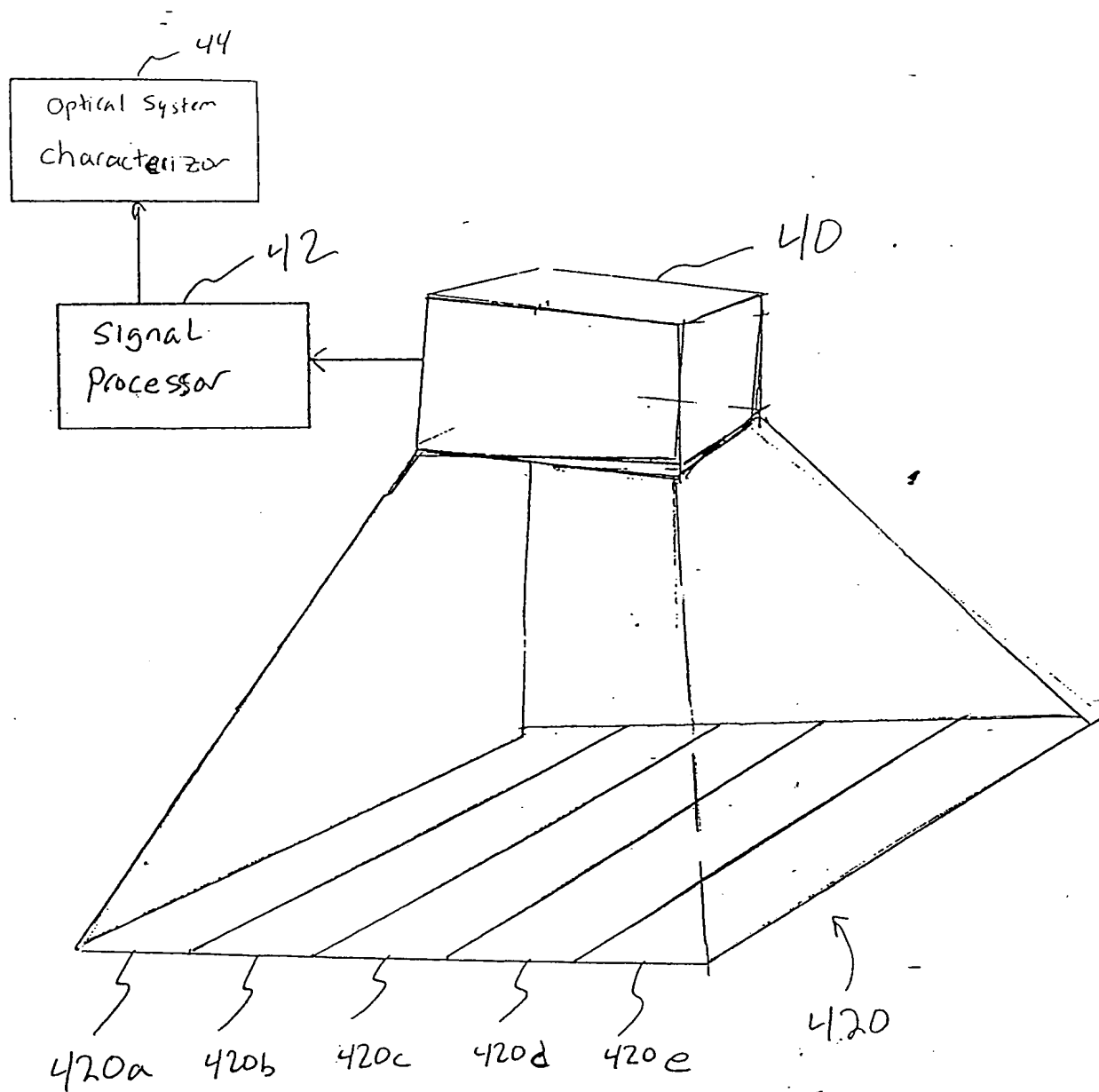


Fig 6

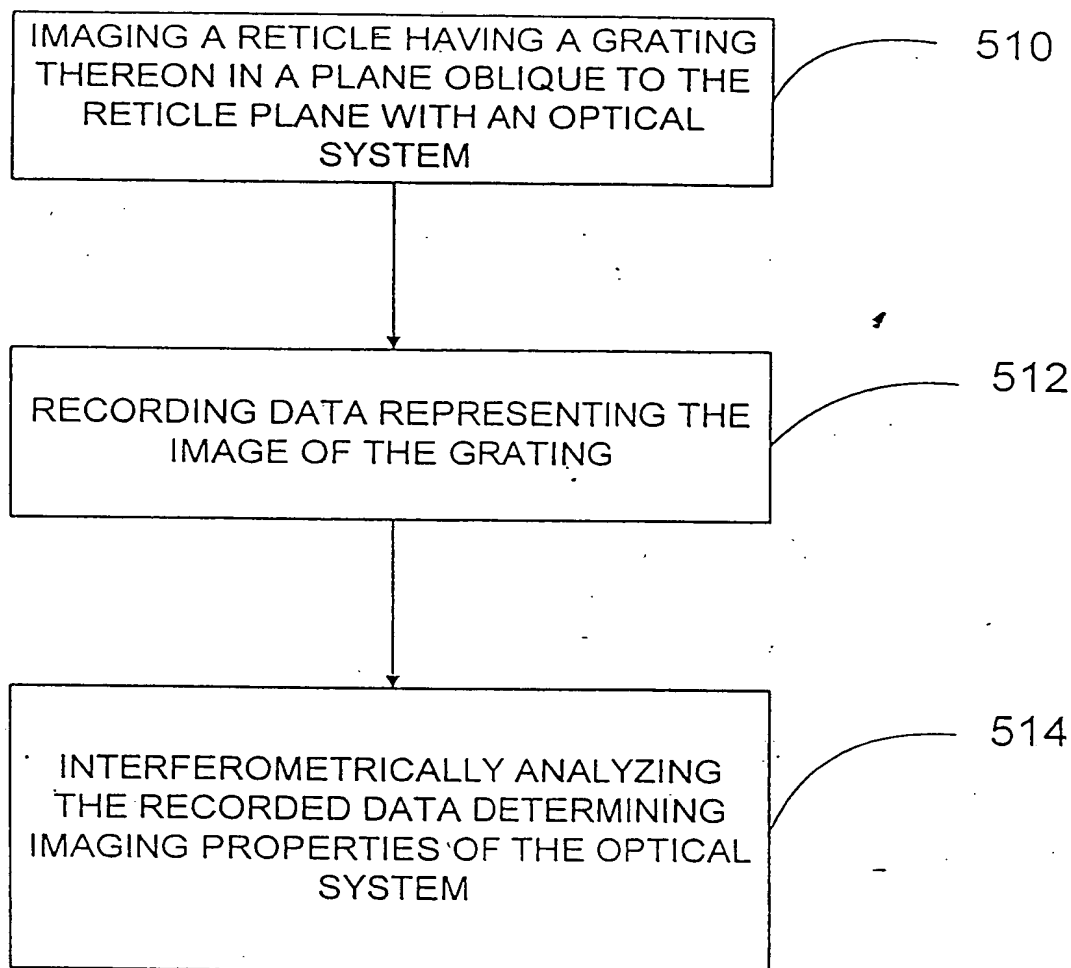


FIG. 7

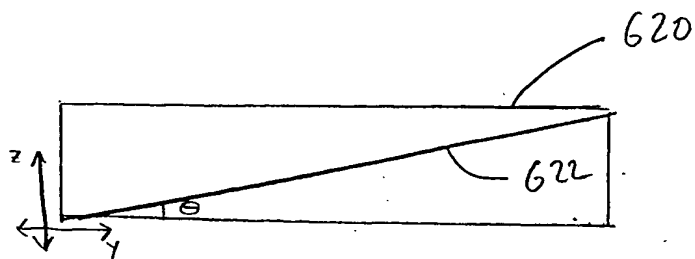


Fig 8A

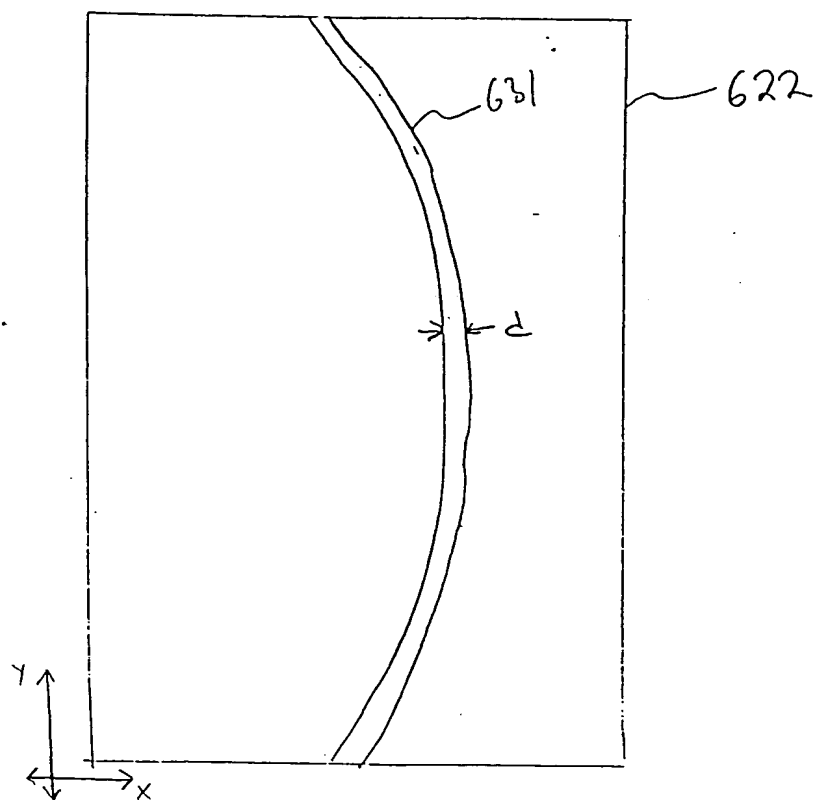
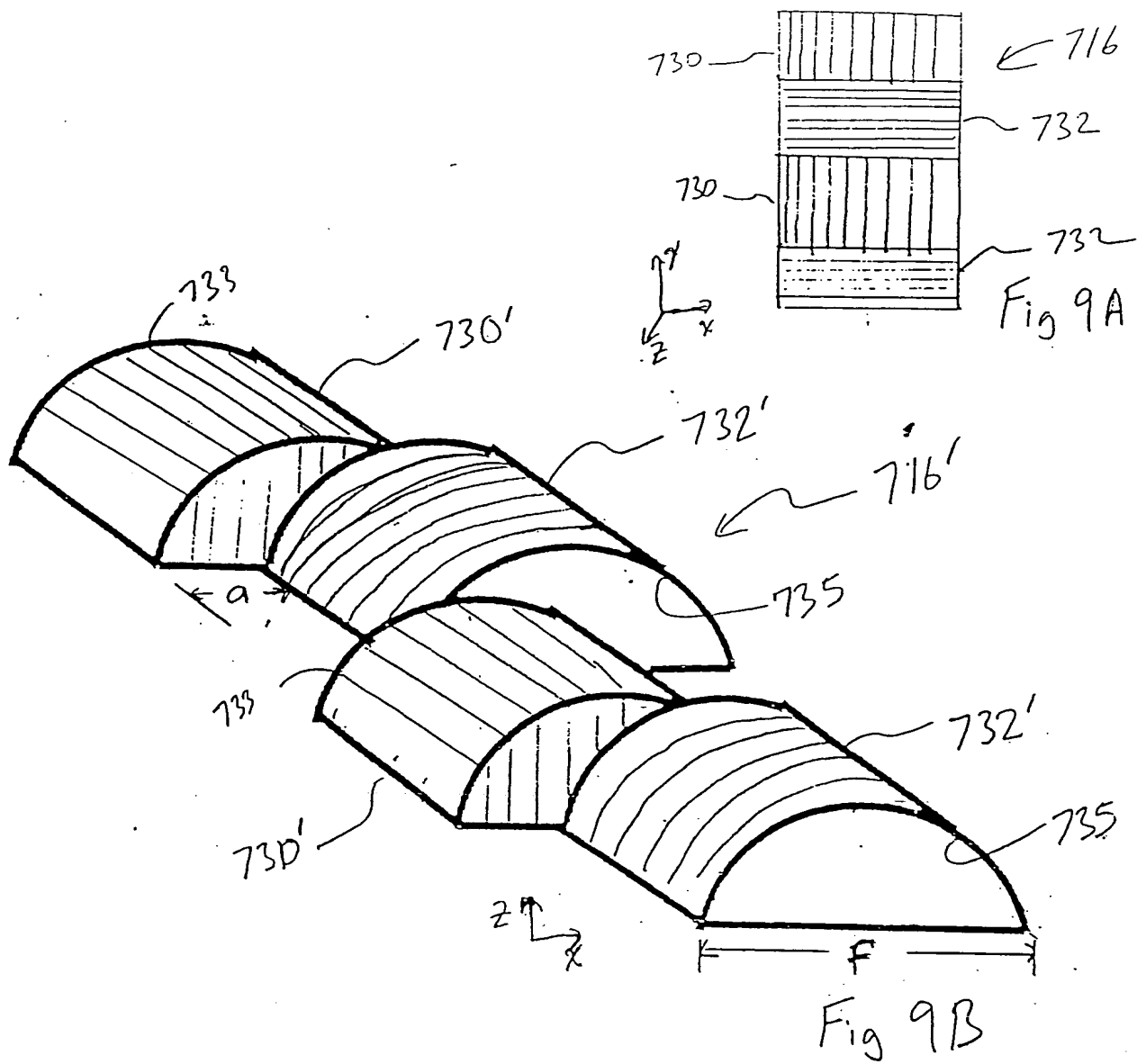


Fig 8B



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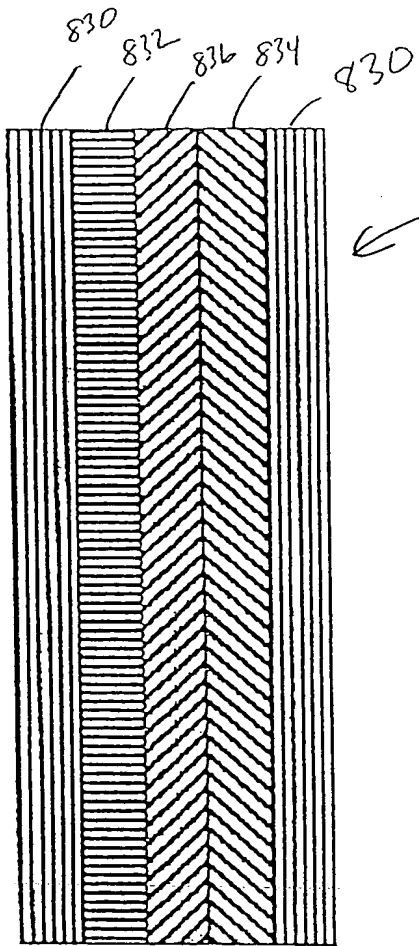
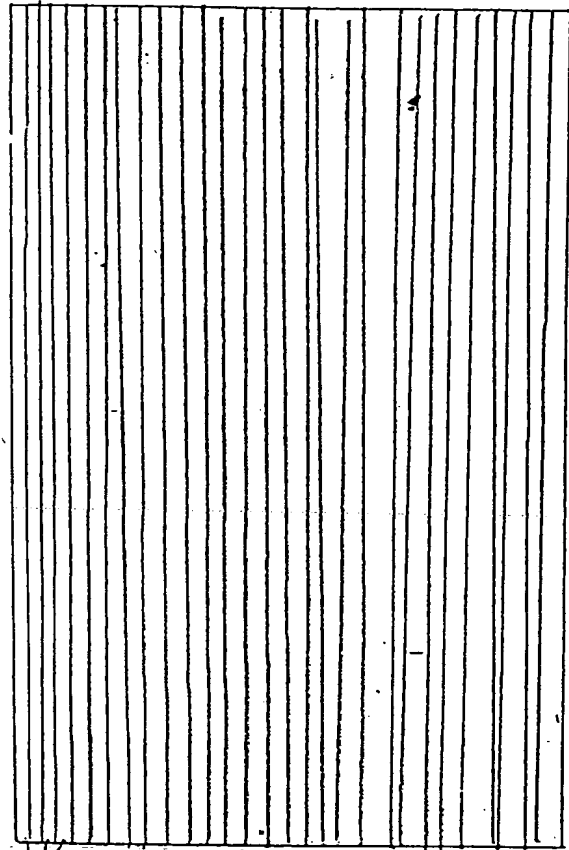


Fig 10B

Fig 10A

817

816



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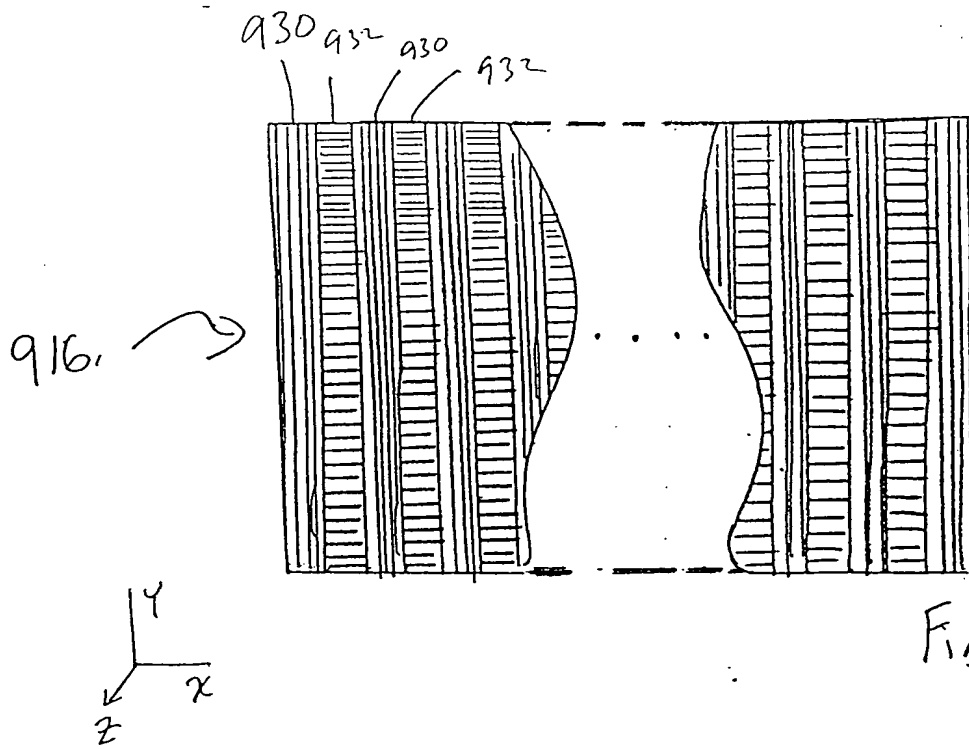


FIG 11A

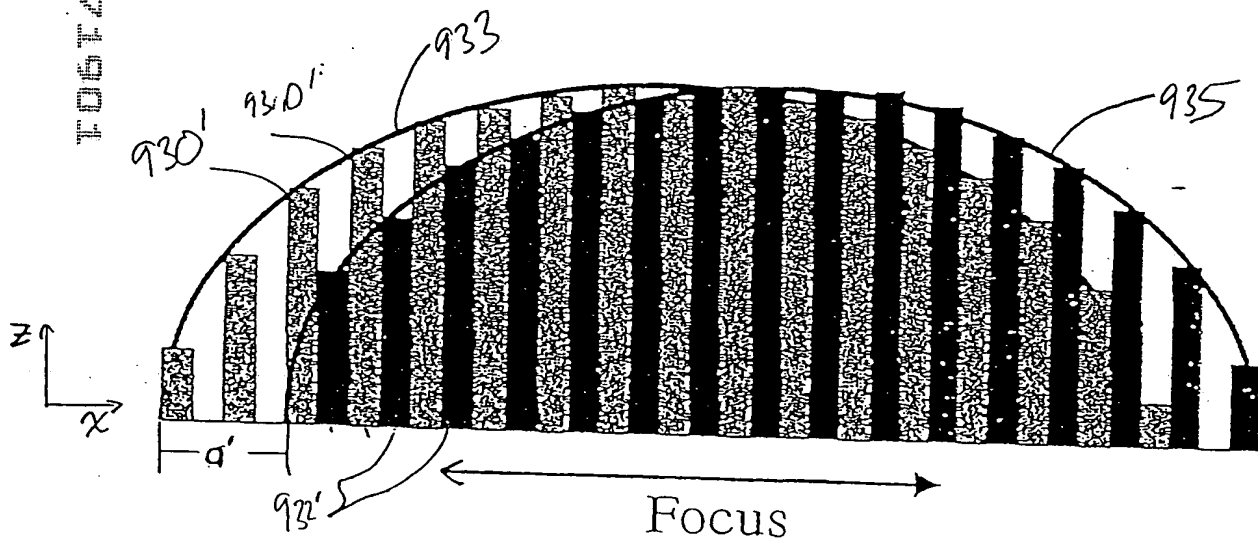
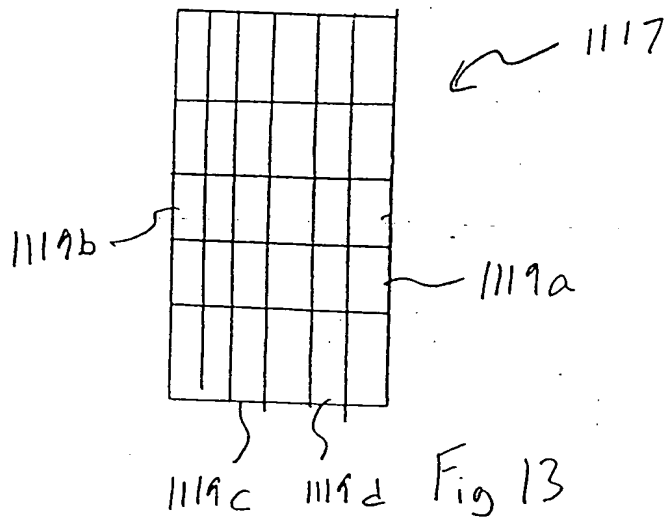
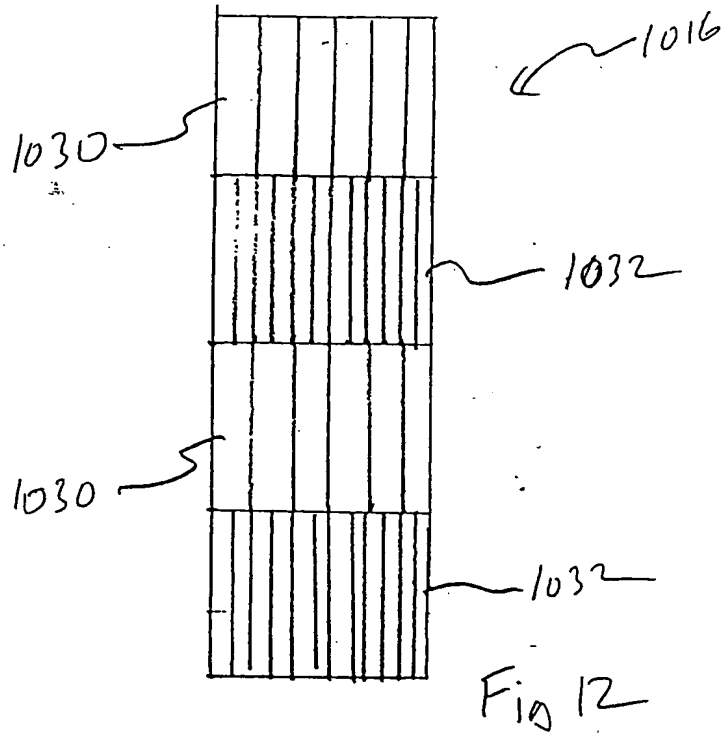


FIG 11B



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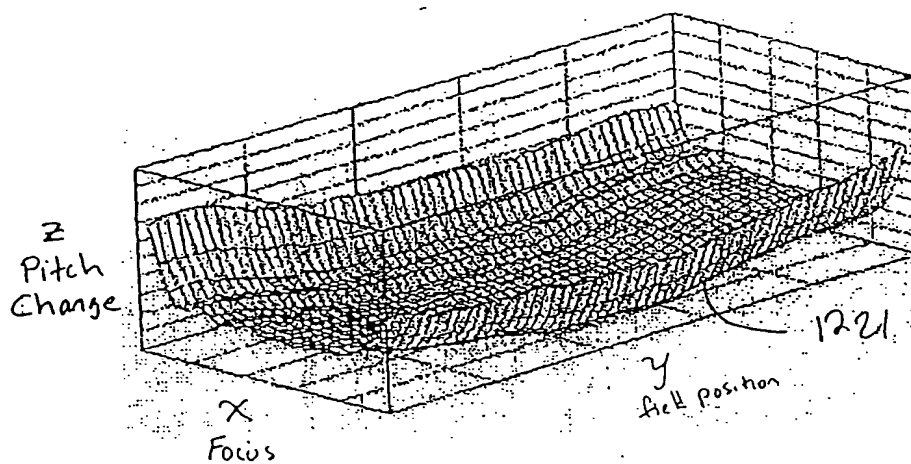


Fig 14

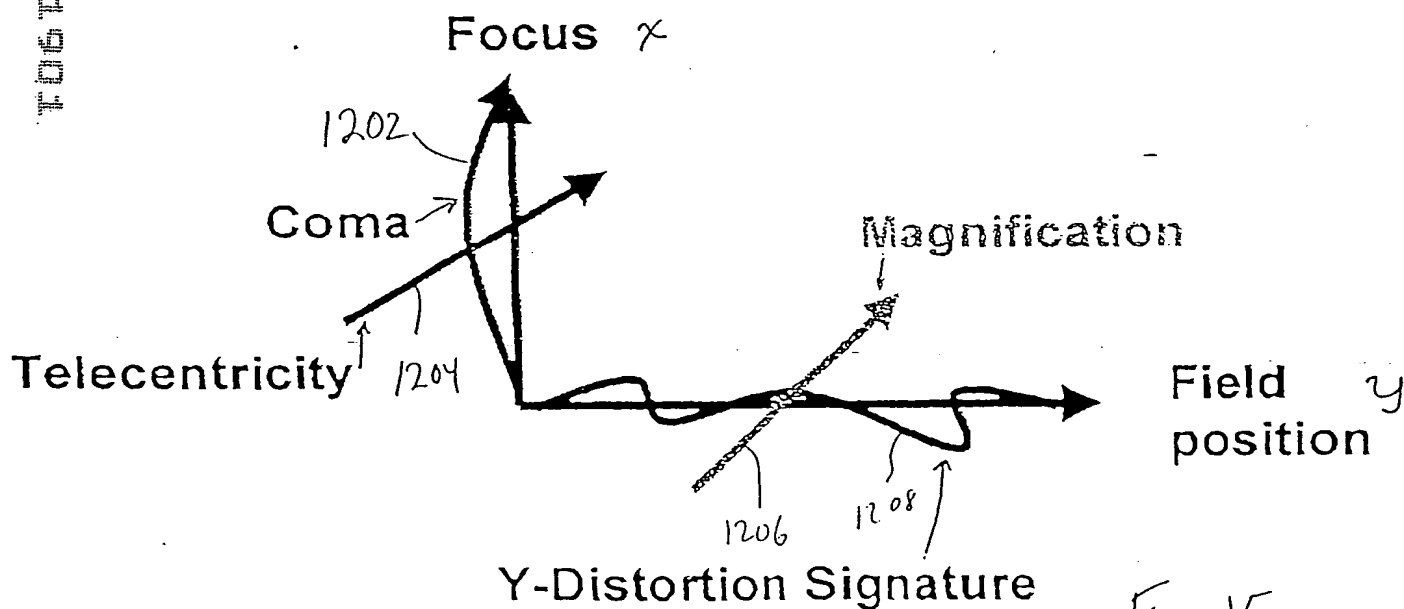


Fig 15

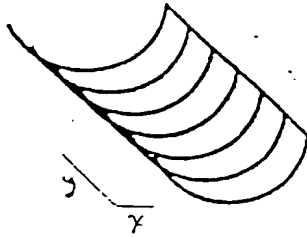
FOI 2007-001902-071901

Fig 16A



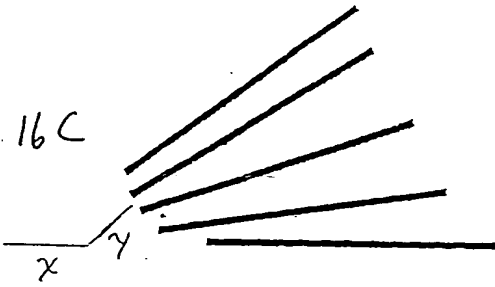
Magnification

Fig 16B



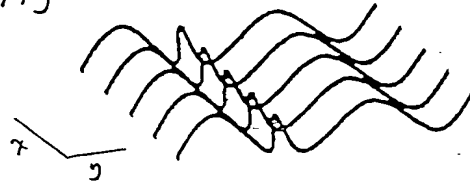
Coma

Fig 16C



Telecentricity

Fig 16D



Y-Distortion Signature

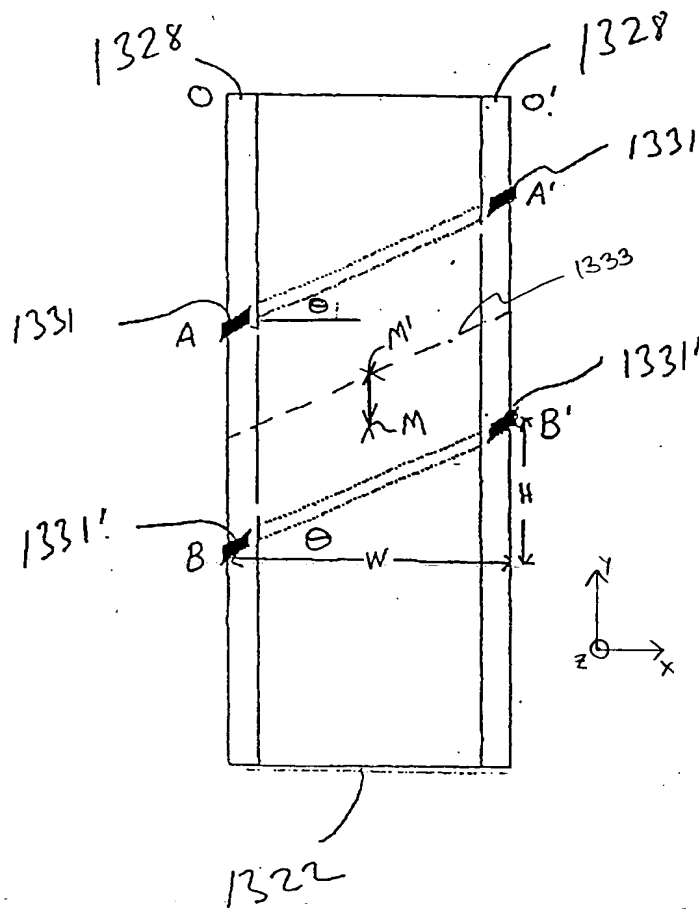


Fig 17

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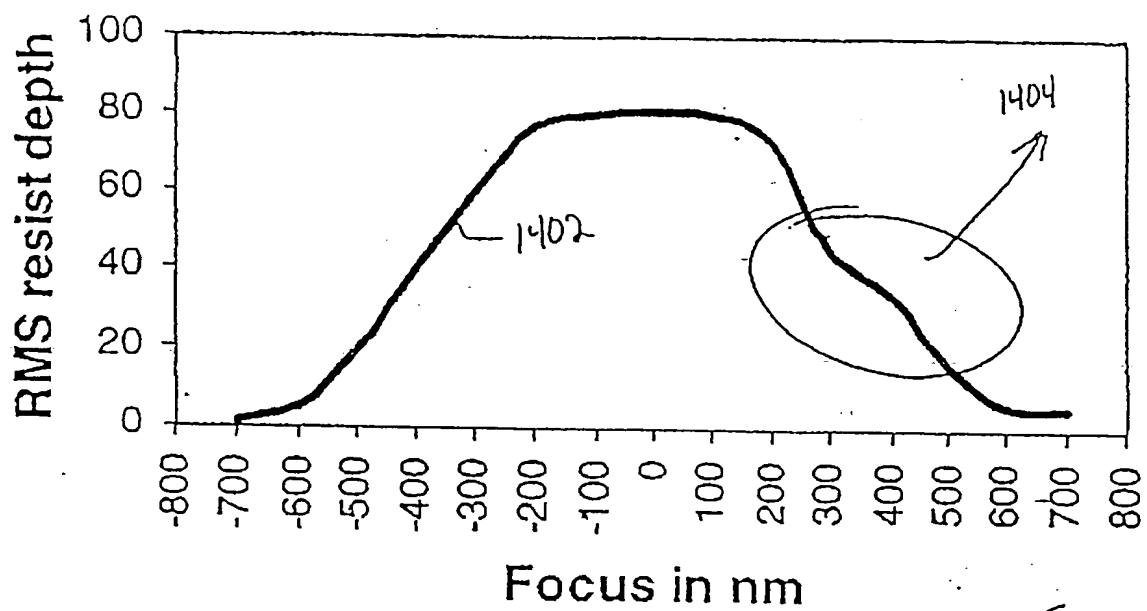
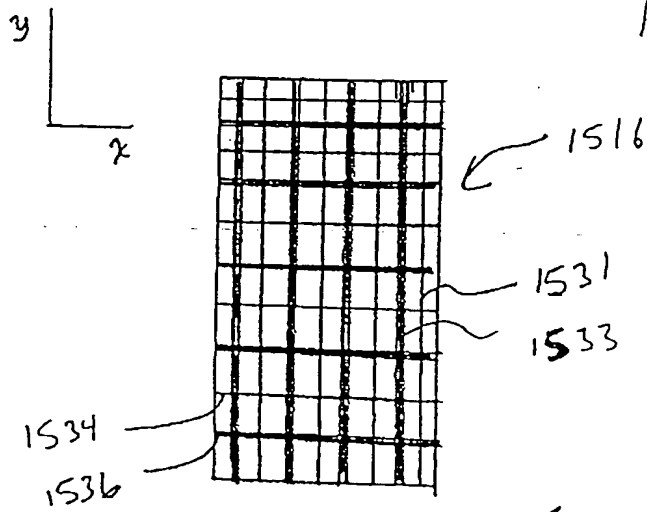
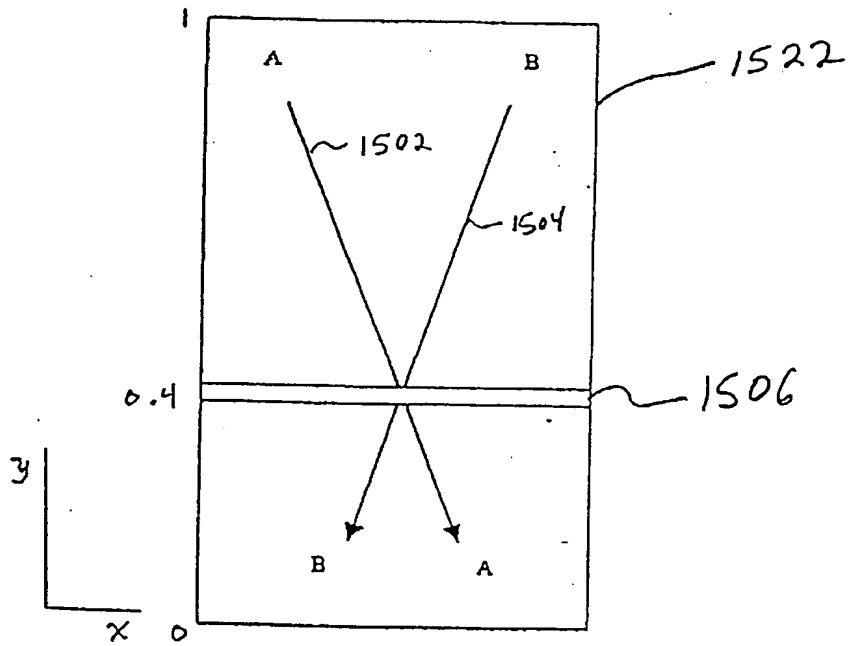


Fig. 18



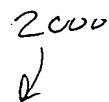


FIG. 20

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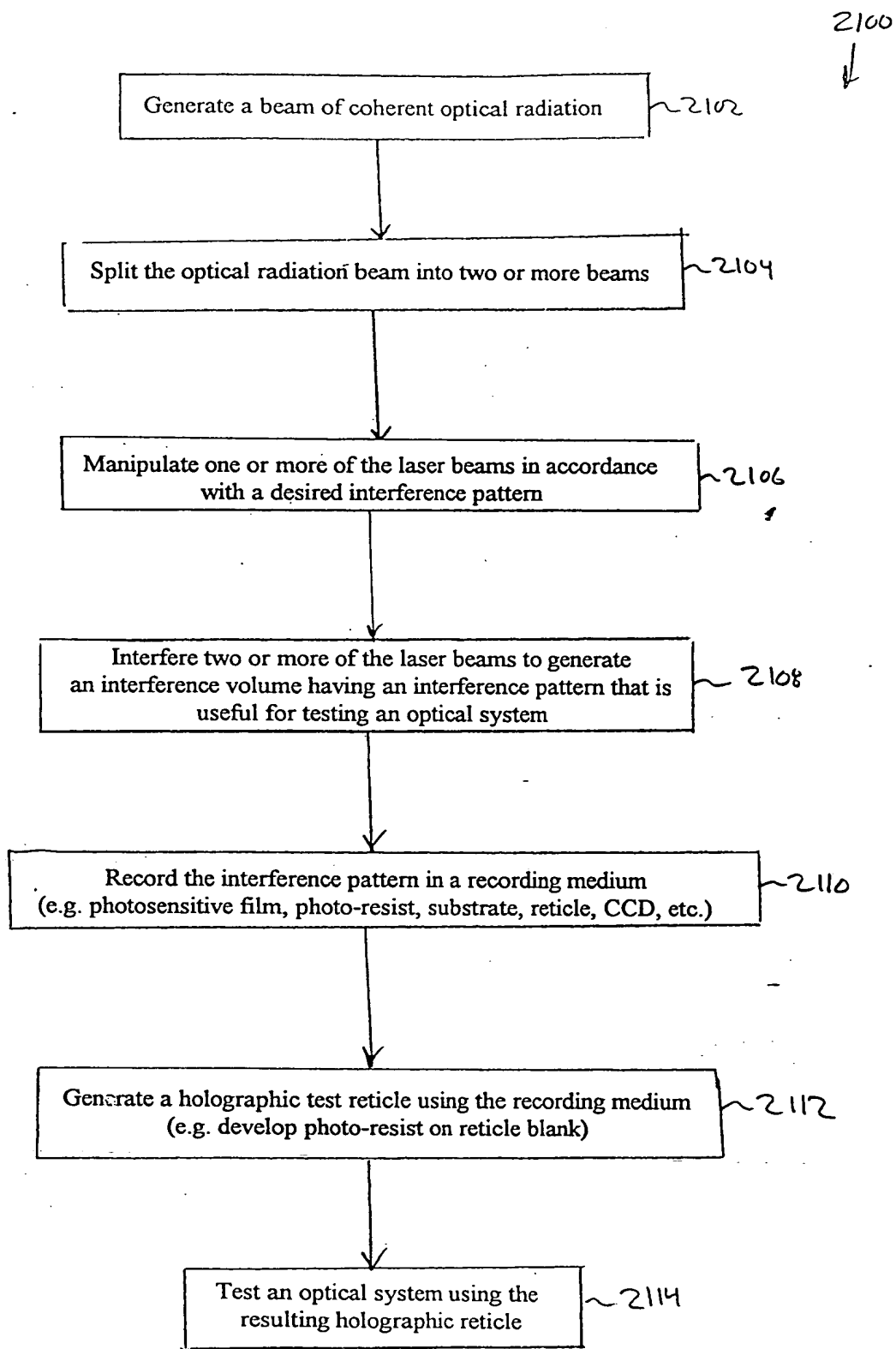


FIG. 21

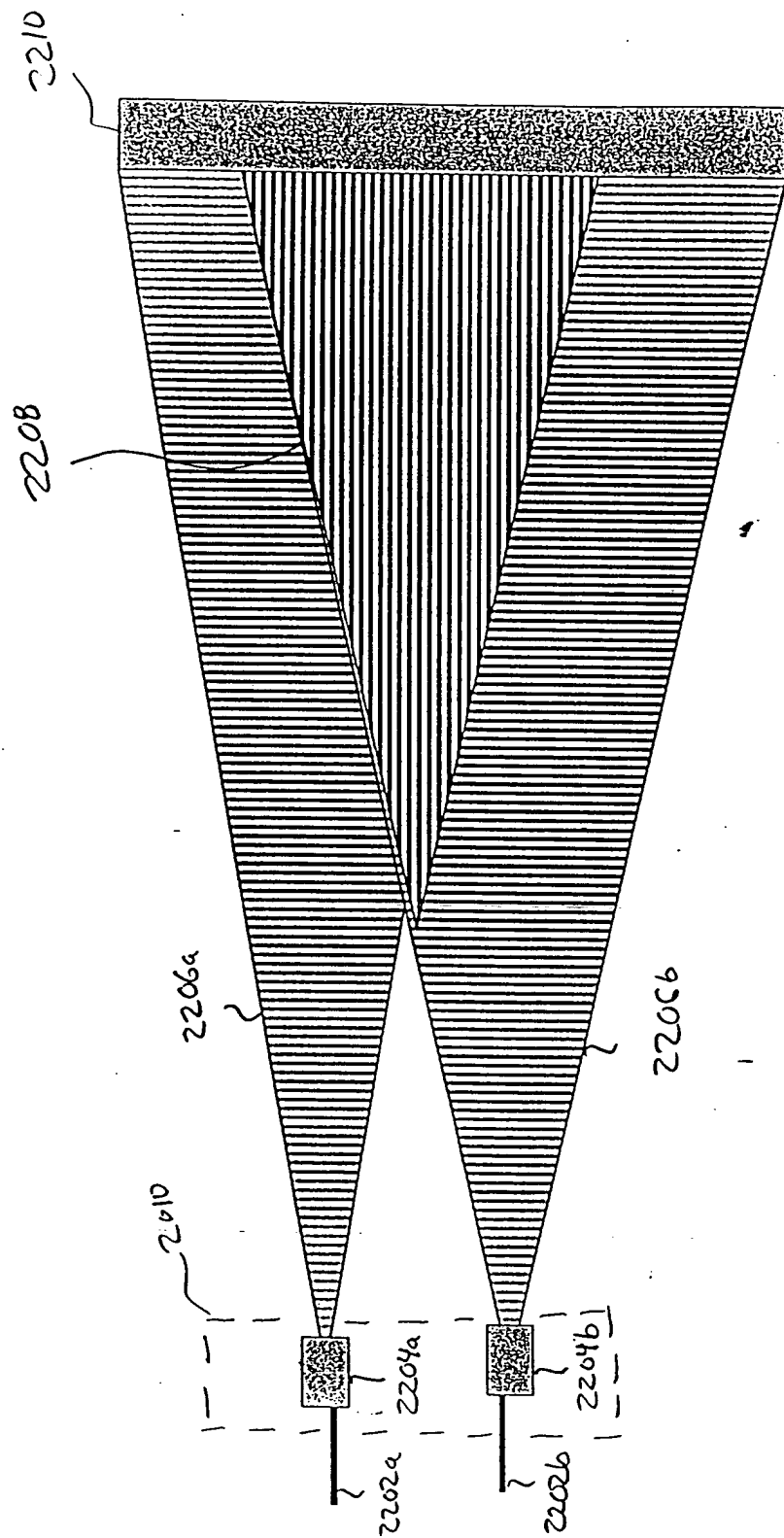


FIG. 22A

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2122

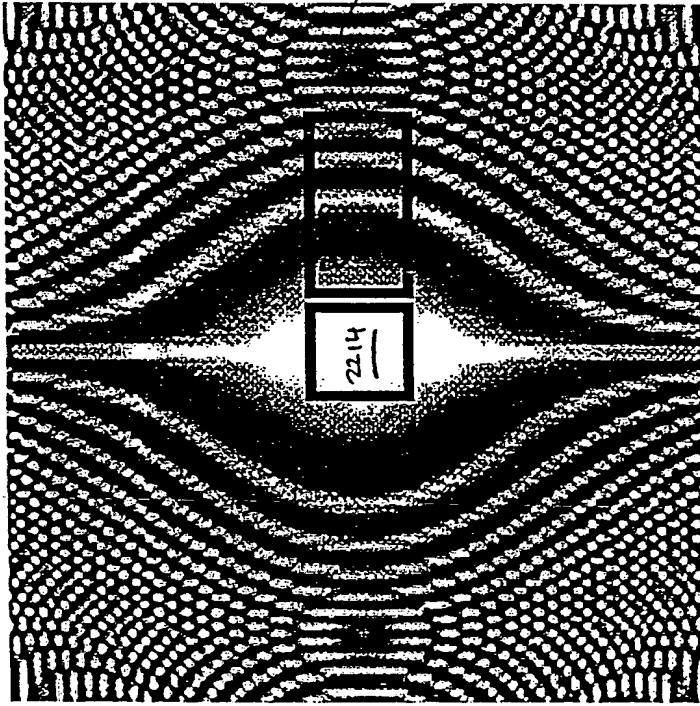
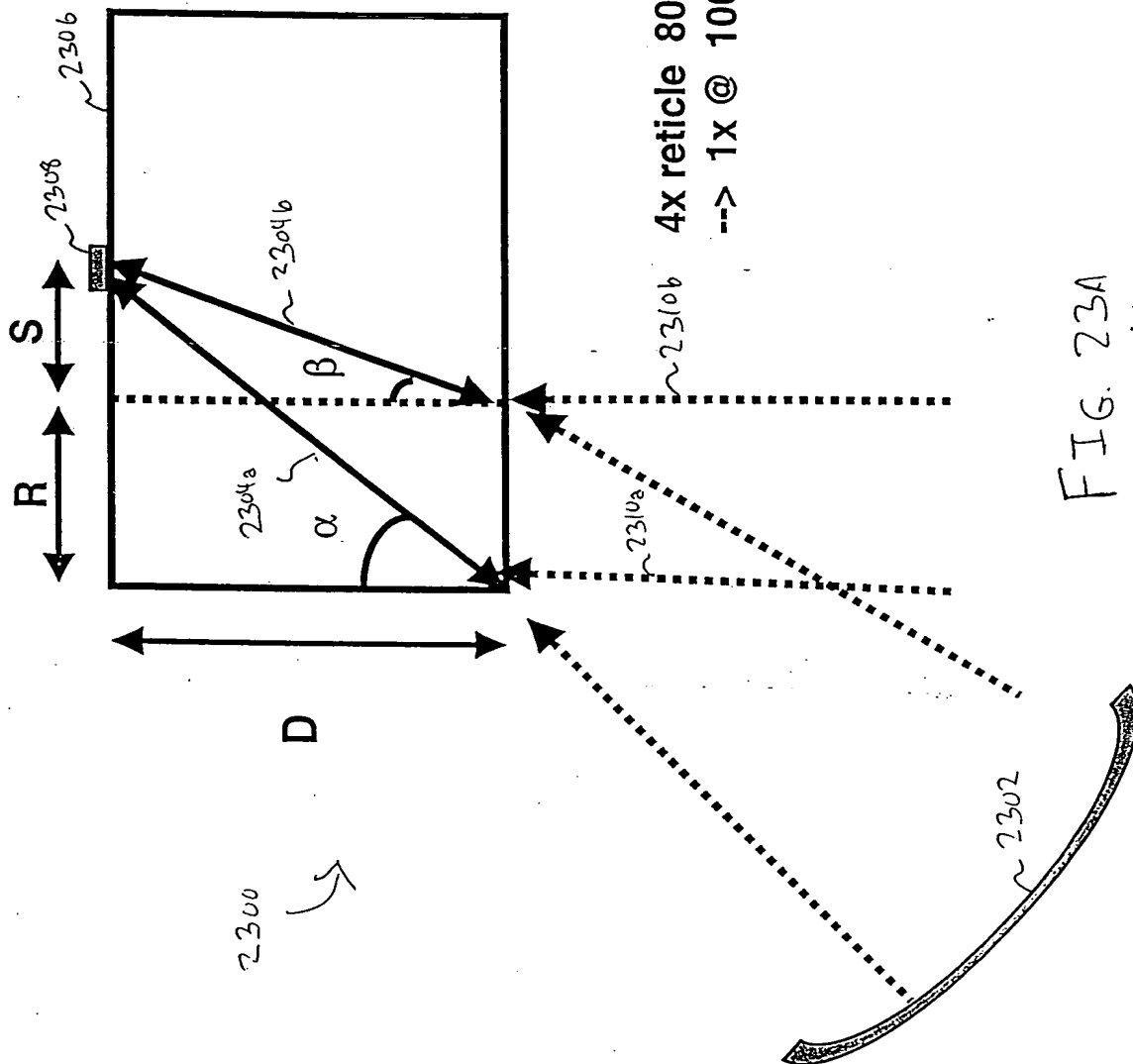


FIG. 22B

FIG. 23A



$$\lambda = 257$$

$$D = 400$$

$$S = 50$$

$$R = 100$$

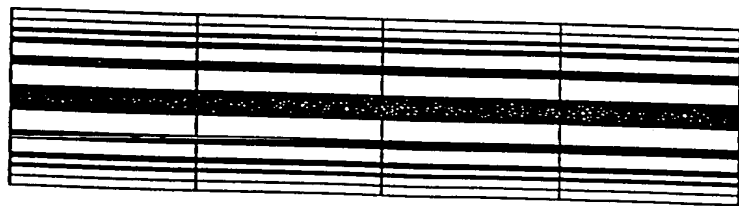
$$\alpha = 18.7$$

$$\beta = 6.14$$

4x reticle 800 --> 2400 nm pitch range
--> 1x @ 100 --> 300 nm pitch range

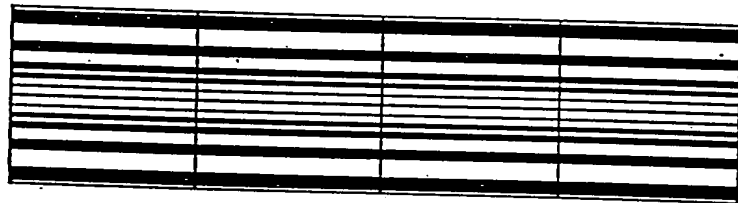
FIG. 23A

~ 2312



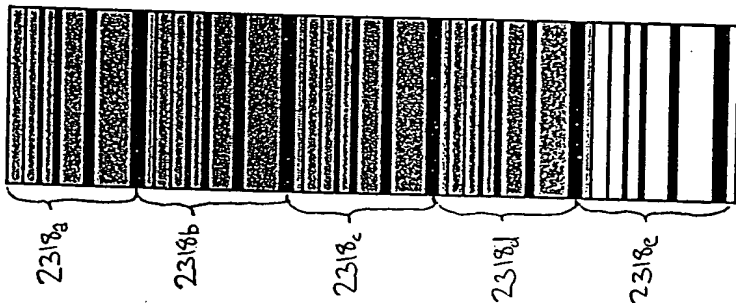
Cylinder Zone Plate
FIG. 23B

~ 2314



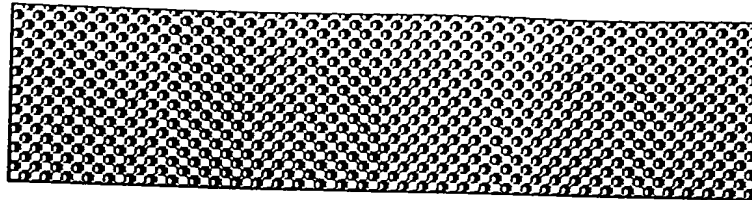
Reverse Cylinder Zone Plate
FIG. 23C

~ 2316



Interlaced Chirped
Holographic Structures
FIG. 23D

~ 2318



Circular Zone Plate Array
FIG. 23E

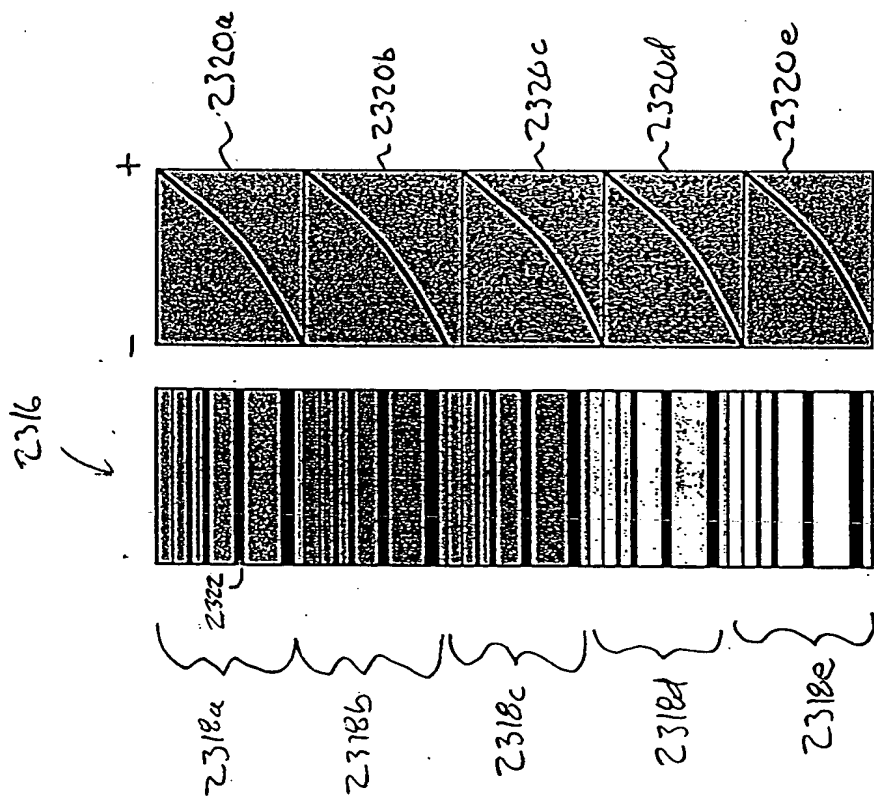


FIG. 23F

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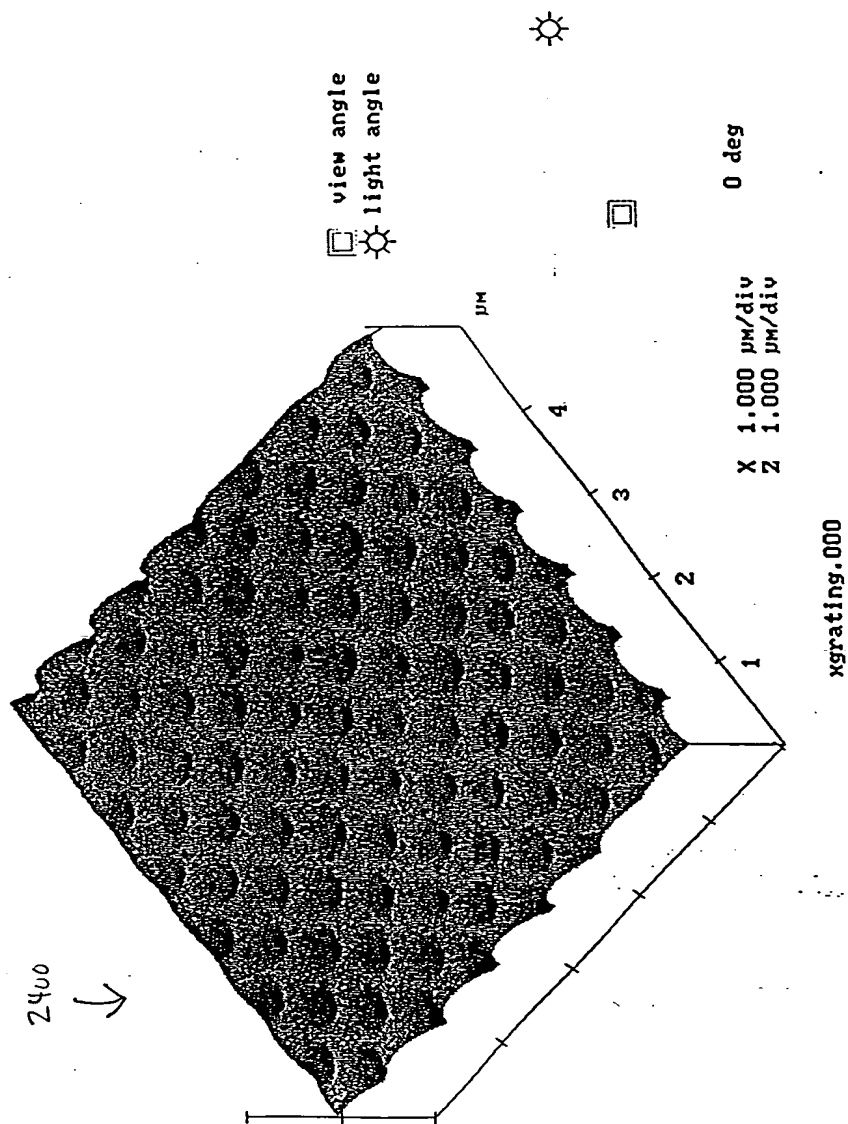


FIG. 24

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2500
↖

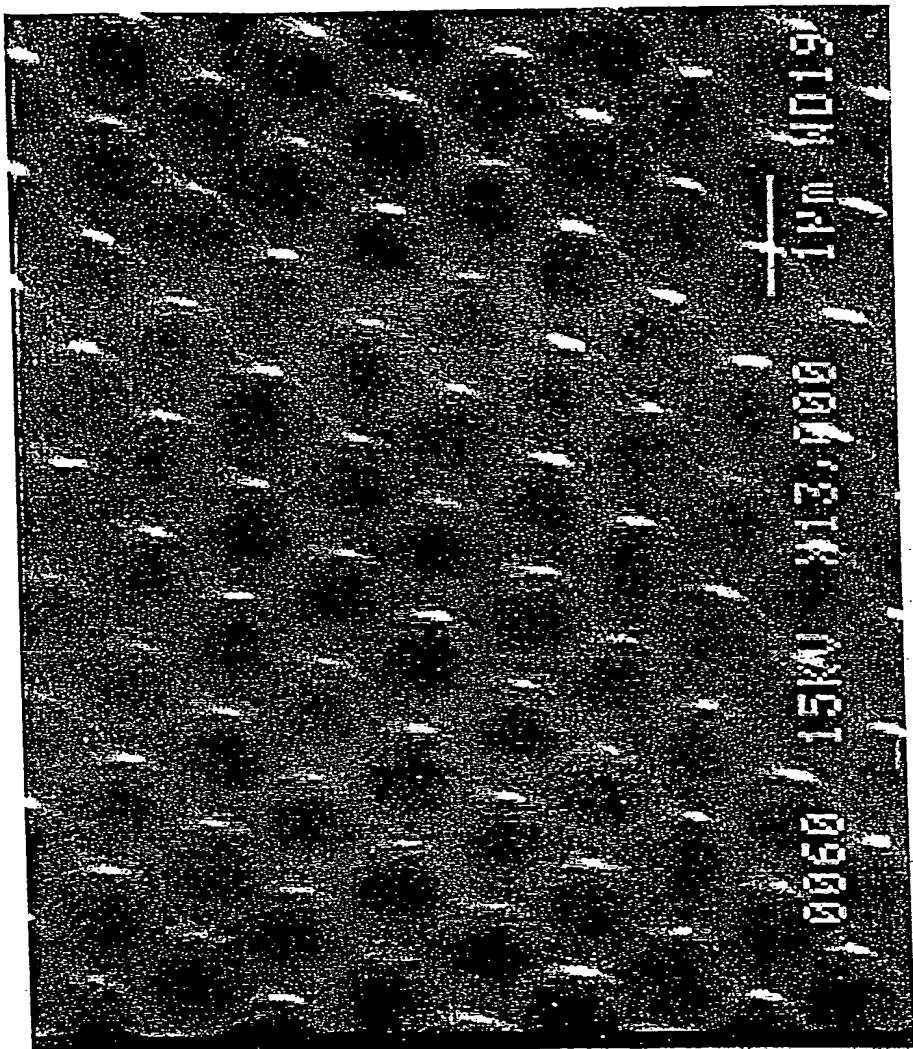


FIG 25

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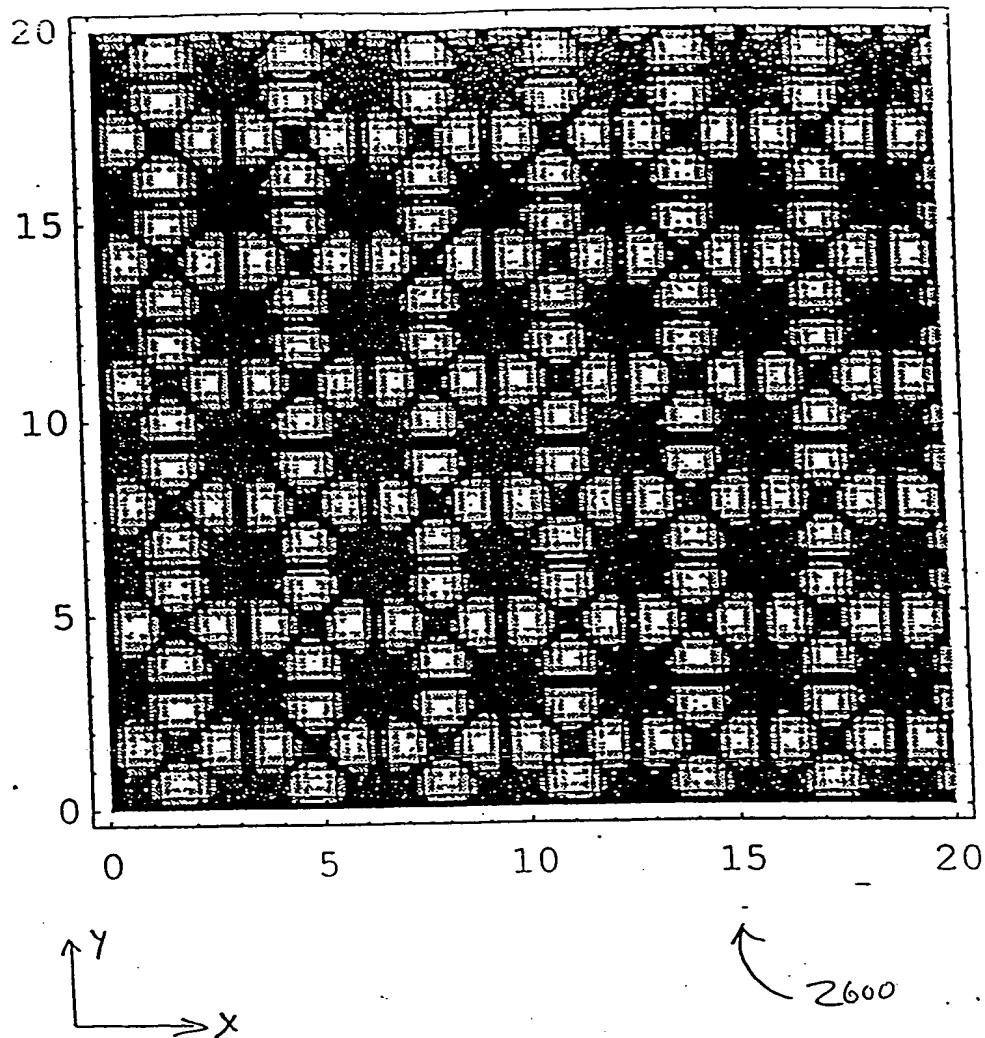


FIG. 26

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270
→

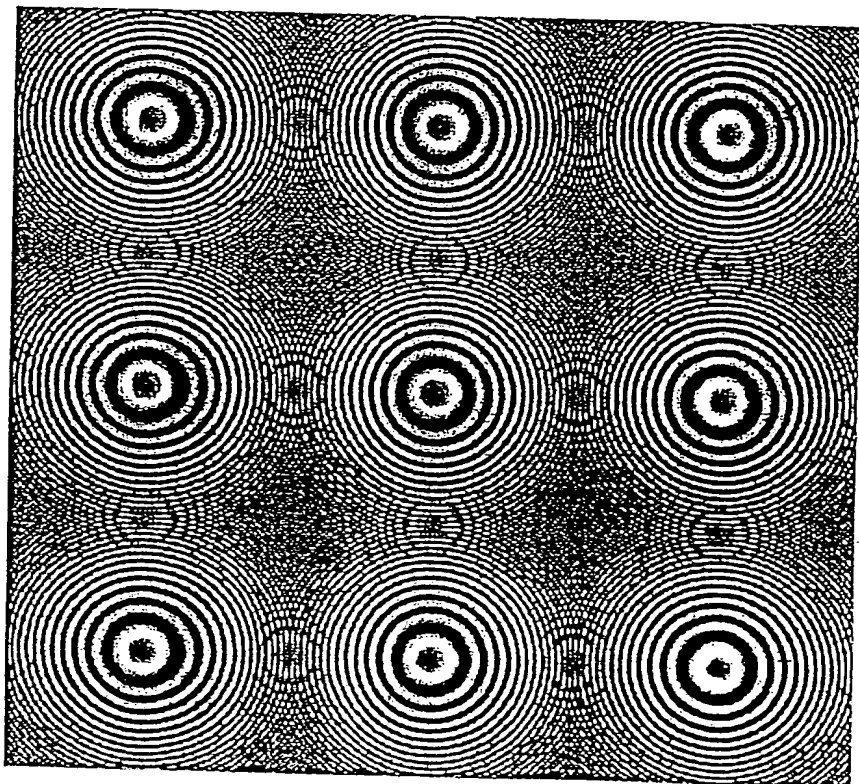
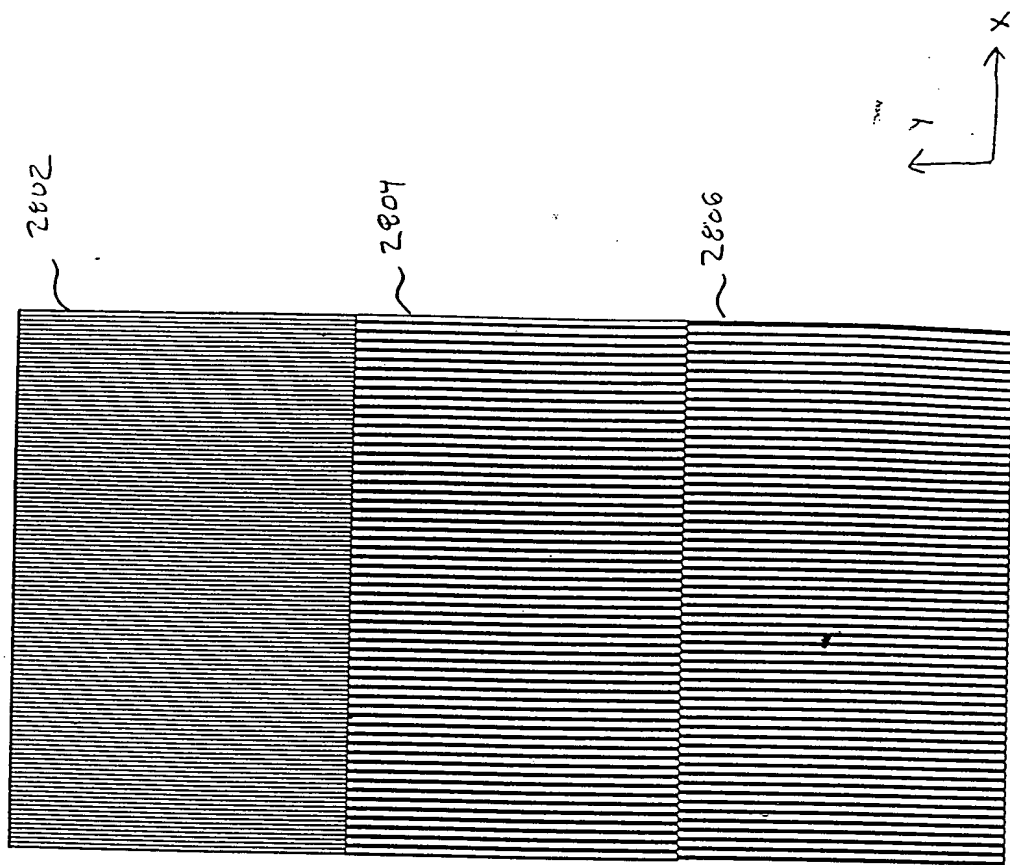


FIG. 27

FIG. 28



Pitch change

Phase change

FIG. 28

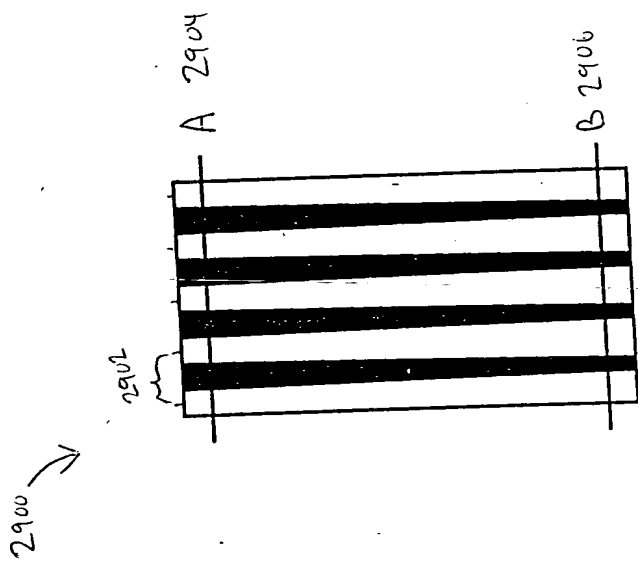


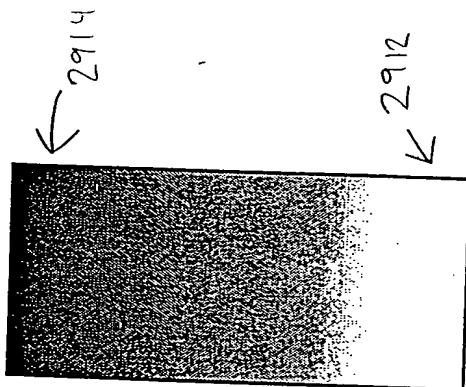
FIG. 29A

2908 ↗



FIG. 29B

2910 ↗



↖ 2914

↖ 2912

FIG. 29C

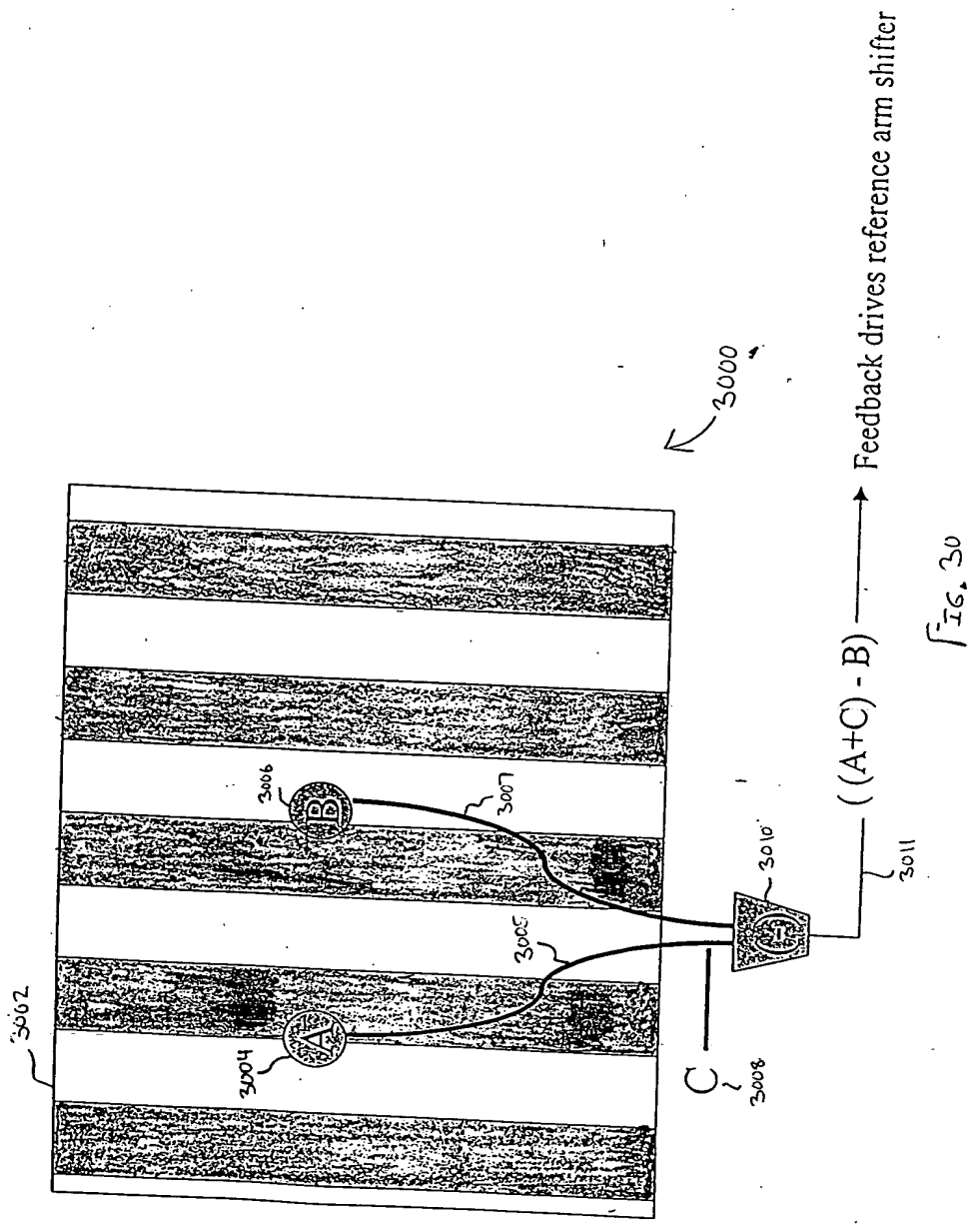


FIG. 20

09907902.071901

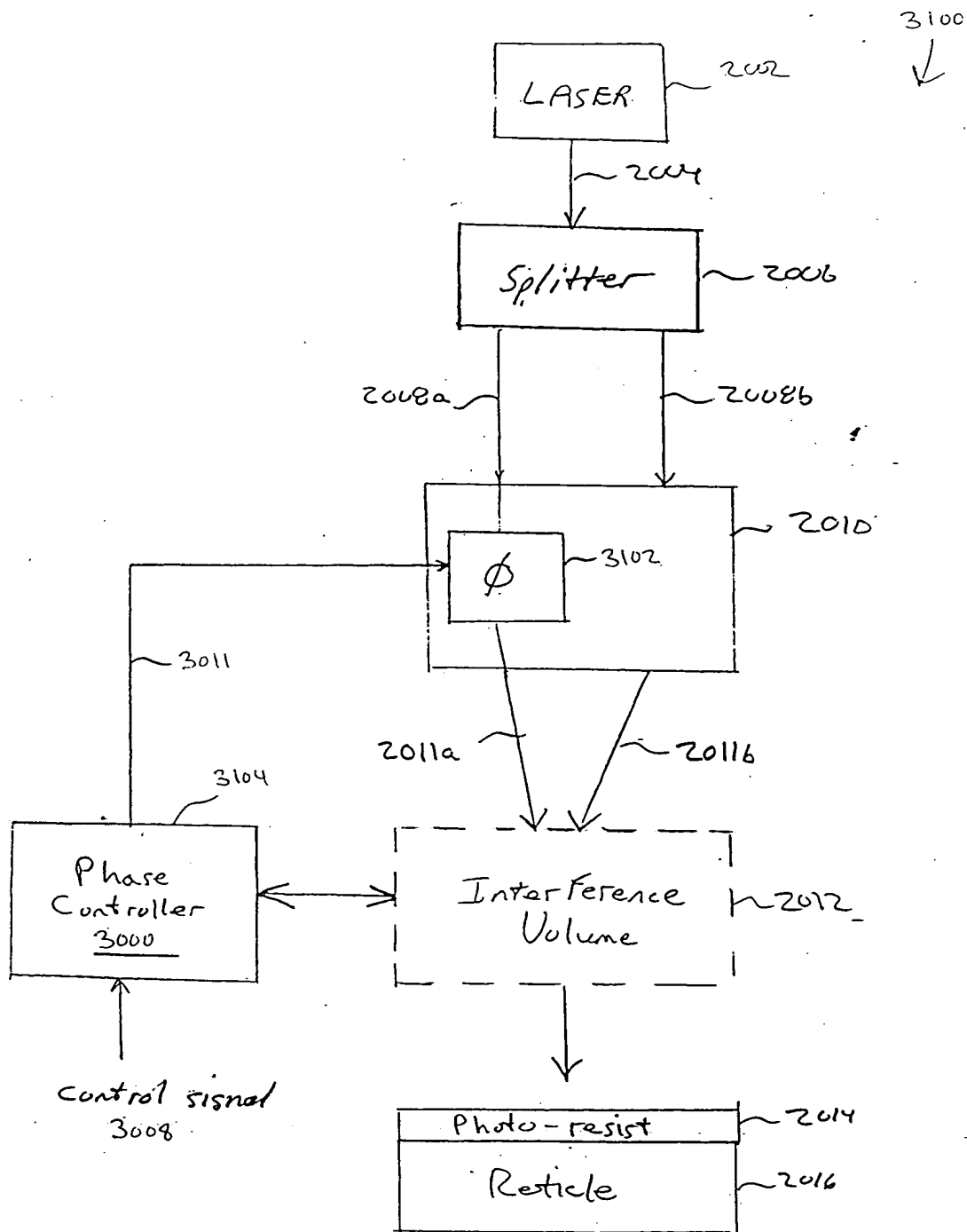


FIG. 31

3200

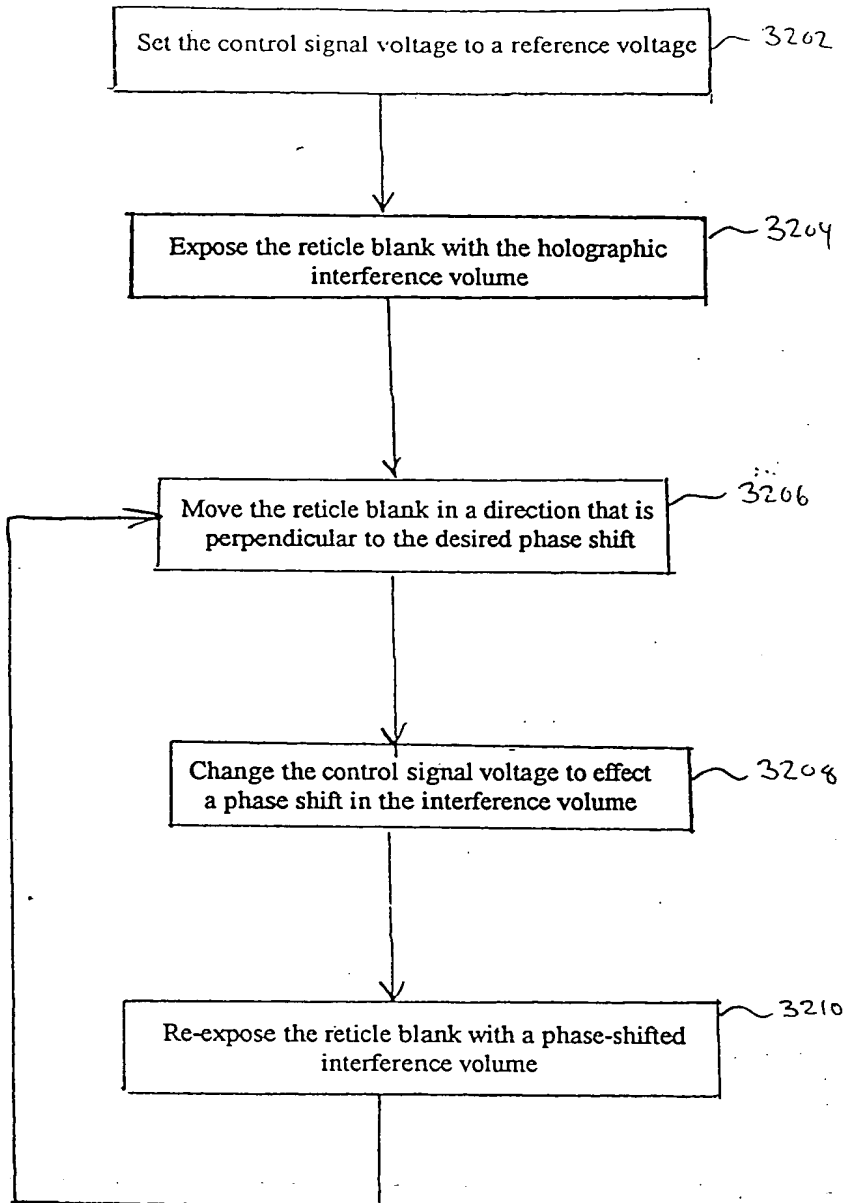
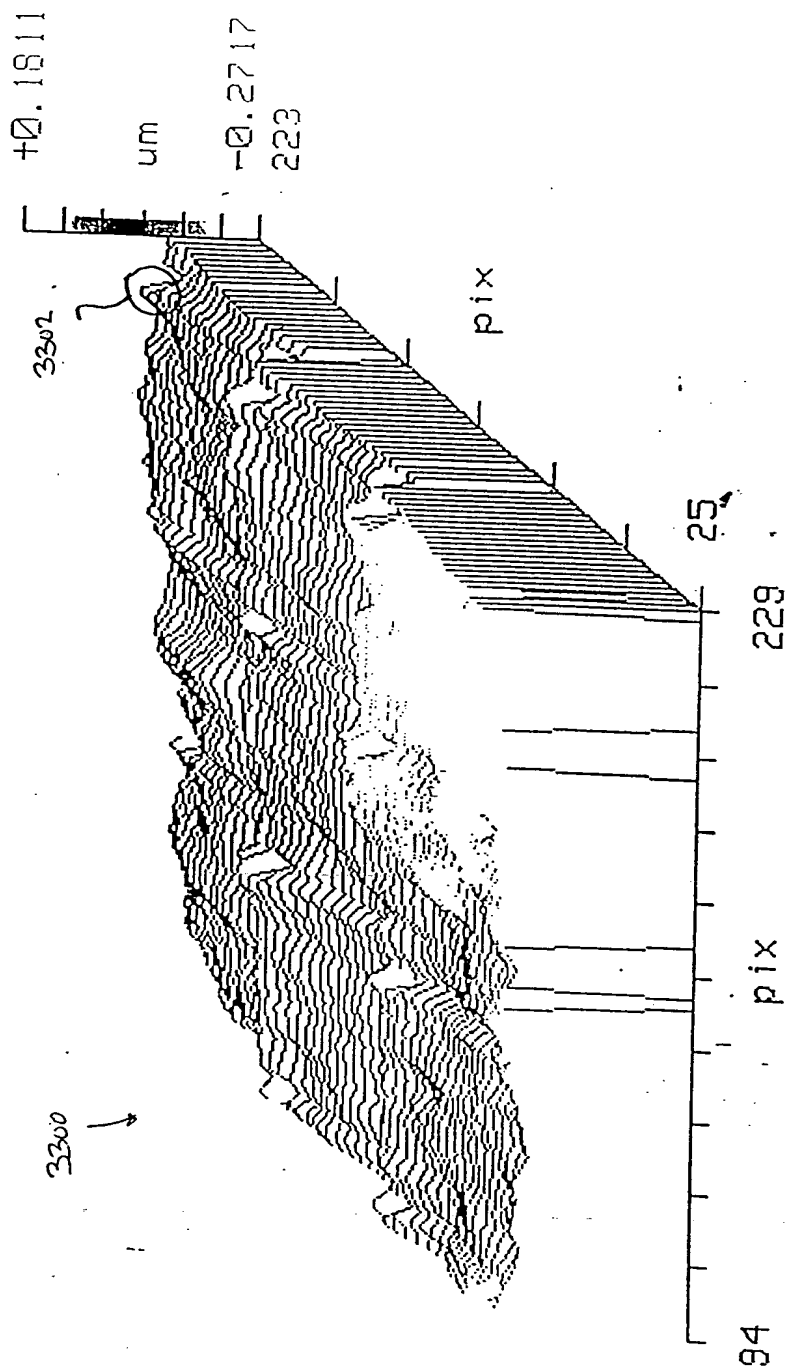


FIG 32

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$f_{16.33}$

099009001 206720"

3400
d

Coma-induced Distortion

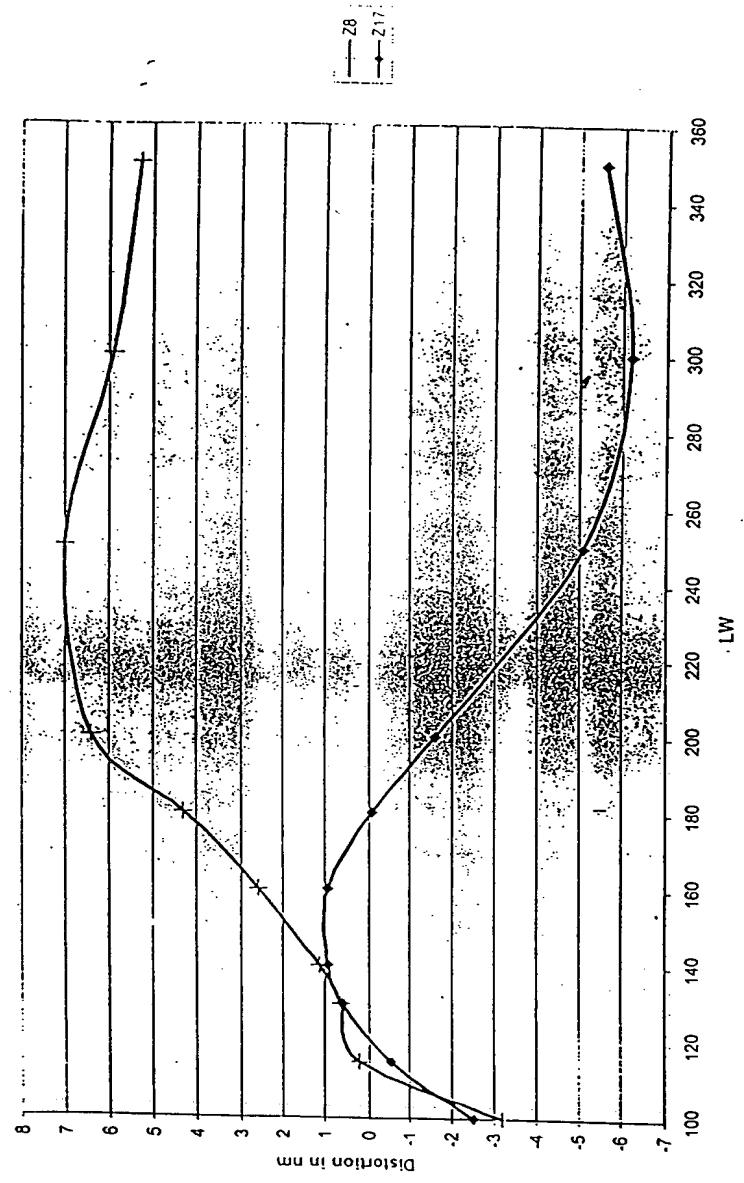


Fig. 34

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Image shift PC= 0.6 for 0.05 waves Z7 @248

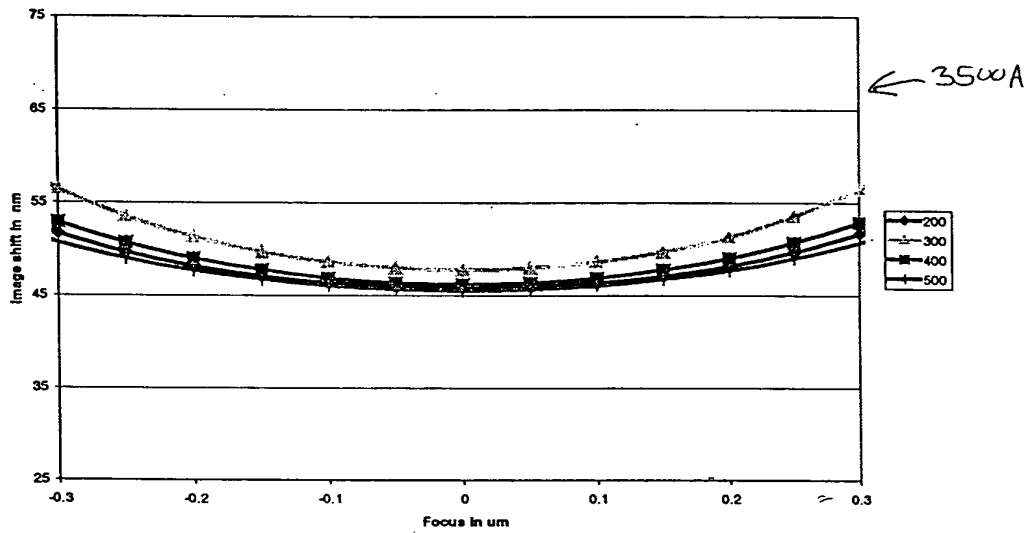


FIG. 35A

Image shift PC= 0.3 for 0.05 waves Z7 @248

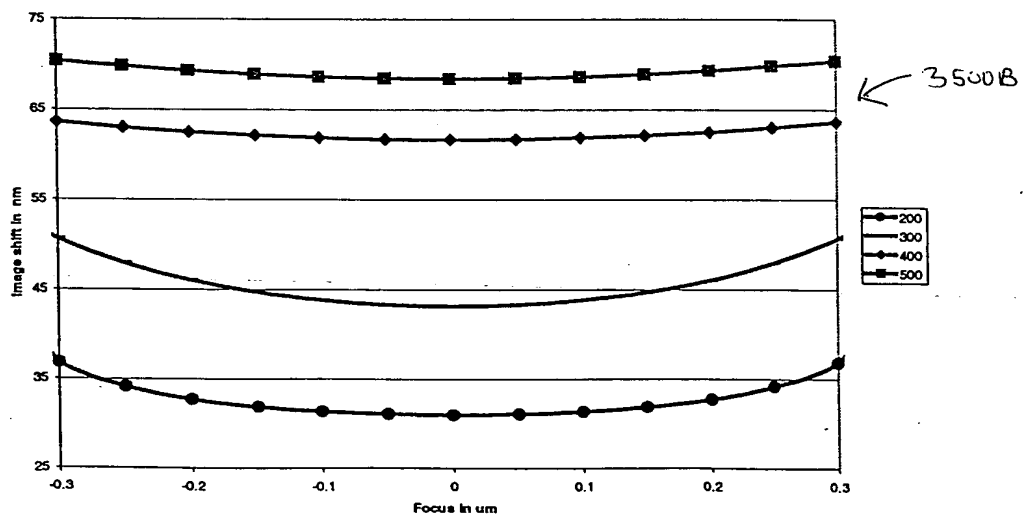


FIG. 35B

FIG. 36

3600	Diffraction Order			
Linewidth	1st	2nd	3rd	4th
100 nm	a			
200 nm	b	a		
300 nm	c		a	
400 nm	d	b		a
600 nm	e	c		
800 nm		d	b	
900 nm			c	
1000 nm				b
1200 nm		e	d	c

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